



RAW SEQUENCE LISTING ERROR REPORT

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

Application Serial Number: 10/517,647
Source: PG/10
Date Processed by STIC: 12/22/04

THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS.

PLEASE FORWARD THIS INFORMATION TO THE APPLICANT BY EITHER:

- 1) INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE APPLICANT, WITH A NOTICE TO COMPLY or,
- 2) TELEPHONING APPLICANT AND FAXING A COPY OF THIS PRINTOUT, WITH A NOTICE TO COMPLY

FOR CRF SUBMISSION AND PATENTIN SOFTWARE QUESTIONS, PLEASE CONTACT MARK SPENCER, TELEPHONE: 571-272-2510; FAX: 571-273-0221

TO REDUCE ERRORED SEQUENCE LISTINGS, PLEASE USE THE CHECKER VERSION 4.2 PROGRAM, ACCESSIBLE THROUGH THE U.S. PATENT AND TRADEMARK OFFICE WEBSITE. SEE BELOW FOR ADDRESS:

<http://www.uspto.gov/web/offices/pac/checker/chkrnote.htm>

Applicants submitting genetic sequence information electronically on diskette or CD-Rom should be aware that there is a possibility that the disk/CD-Rom may have been affected by treatment given to all incoming mail.

Please consider using alternate methods of submission for the disk/CD-Rom or replacement disk/CD-Rom.

Any reply including a sequence listing in electronic form should NOT be sent to the 20231 zip code address for the United States Patent and Trademark Office, and instead should be sent via the following to the indicated addresses:

1. EFS-Bio (<<http://www.uspto.gov/efc/efs/downloads/documents.htm>> , EFS Submission User Manual - ePAVE)
2. U.S. Postal Service: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450
3. Hand Carry, Federal Express, United Parcel Service, or other delivery service (EFFECTIVE 06/05/04):
U.S. Patent and Trademark Office, 220 20th Street S., Customer Window, Mail Stop Sequence, Crystal Plaza Two, Lobby, Room 1B03, Arlington, VA 22202



PCT

RAW SEQUENCE LISTING

DATE: 12/22/2004

PATENT APPLICATION: US/10/517,647

TIME: 16:24:07

Input Set : A:\06275-422US1.txt

Output Set: N:\CRF4\12222004\J517647.raw

3 <110> APPLICANT: Moore, Rachael
 4 Dudley, Adam Jeston
 6 <120> TITLE OF INVENTION: METHODS FOR THE DETECTION OF POLYMORPHISMS IN THE HUMAN
 OATPF GENE
 8 <130> FILE REFERENCE: 06275-422US1
 C--> 10 <140> CURRENT APPLICATION NUMBER: US/10/517,647
 C--> 10 <141> CURRENT FILING DATE: 2004-12-10
 10 <150> PRIOR APPLICATION NUMBER: PCT/GB03/02487
 11 <151> PRIOR FILING DATE: 2003-06-10
 13 <150> PRIOR APPLICATION NUMBER: GB 0213580.4
 14 <151> PRIOR FILING DATE: 2002-06-13
 16 <150> PRIOR APPLICATION NUMBER: US 60/388,692
 17 <151> PRIOR FILING DATE: 2002-06-14
 19 <160> NUMBER OF SEQ ID NOS: 17
 21 <170> SOFTWARE: PatentIn Ver. 2.1
 23 <210> SEQ ID NO: 1
 24 <211> LENGTH: 40
 25 <212> TYPE: DNA
 26 <213> ORGANISM: Artificial Sequence
 W--> 28 <220> FEATURE:
 W--> 28 <223> OTHER INFORMATION: *see p.6 for end explanation*
 W--> 28 <400> 1
 29 actgtaaaac gacggccagt aatgaggctt aaactgggca 40
 32 <210> SEQ ID NO: 2
 33 <211> LENGTH: 40
 34 <212> TYPE: DNA
 35 <213> ORGANISM: Artificial Sequence
 37 <220> FEATURE:
 38 <223> OTHER INFORMATION: Description of Artificial Sequence:PCR reverse
 39 primer OATPF-1R
 41 <400> SEQUENCE: 2
 42 accaggaaac agctatgacc ggtagagatt gcttgcaccg 40
 45 <210> SEQ ID NO: 3
 46 <211> LENGTH: 20
 47 <212> TYPE: DNA
 48 <213> ORGANISM: Artificial Sequence
 50 <220> FEATURE:
 51 <223> OTHER INFORMATION: Description of Artificial Sequence:Validation
 52 primer
 54 <400> SEQUENCE: 3
 55 tggacacttc atccaaagaa 20
 58 <210> SEQ ID NO: 4
 59 <211> LENGTH: 41
 60 <212> TYPE: DNA

Does Not Comply
 Corrected Diskette Needed

Does Not Comply
 Corrected Diskette Needed

pp 1-6

RAW SEQUENCE LISTING

DATE: 12/22/2004

PATENT APPLICATION: US/10/517,647

TIME: 16:24:07

Input Set : A:\06275-422US1.txt

Output Set: N:\CRF4\12222004\J517647.raw

```

61 <213> ORGANISM: Artificial Sequence
63 <220> FEATURE:
64 <223> OTHER INFORMATION: Description of Artificial Sequence:PCR forward
65     primer OATPF-2F
67 <400> SEQUENCE: 4
68 actgtaaaac gacggccagt ctatgagcca gatcttctgg c           41
71 <210> SEQ ID NO: 5
72 <211> LENGTH: 43
73 <212> TYPE: DNA
74 <213> ORGANISM: Artificial Sequence
76 <220> FEATURE:
77 <223> OTHER INFORMATION: Description of Artificial Sequence:PCR reverse
78     primer OATPF-2R
80 <400> SEQUENCE: 5
81 accaggaaac agctatgacc cagaagcttt gaaagatttt ccc         43
84 <210> SEQ ID NO: 6
85 <211> LENGTH: 20
86 <212> TYPE: DNA
87 <213> ORGANISM: Artificial Sequence
89 <220> FEATURE:
90 <223> OTHER INFORMATION: Description of Artificial Sequence:Validation
91     primer
93 <400> SEQUENCE: 6
94 tattctcctt cctccaattc           20
97 <210> SEQ ID NO: 7
98 <211> LENGTH: 40
99 <212> TYPE: DNA
100 <213> ORGANISM: Artificial Sequence
102 <220> FEATURE:
103 <223> OTHER INFORMATION: Description of Artificial Sequence:PCR forward
104     primer OATPF-3F
106 <400> SEQUENCE: 7
107 actgtaaaac gacggccagt tgggcaccta attgctacct           40
110 <210> SEQ ID NO: 8
111 <211> LENGTH: 40
112 <212> TYPE: DNA
113 <213> ORGANISM: Artificial Sequence
115 <220> FEATURE:
116 <223> OTHER INFORMATION: Description of Artificial Sequence:PCR reverse
117     primer OATPF-3R
119 <400> SEQUENCE: 8
120 accaggaaac agctatgacc tgagggaaca tacccttggt           40
123 <210> SEQ ID NO: 9
124 <211> LENGTH: 20
125 <212> TYPE: DNA
126 <213> ORGANISM: Artificial Sequence
128 <220> FEATURE:
129 <223> OTHER INFORMATION: Description of Artificial Sequence:Validation
130     primer

```

RAW SEQUENCE LISTING

DATE: 12/22/2004

PATENT APPLICATION: US/10/517,647

TIME: 16:24:07

Input Set : A:\06275-422US1.txt

Output Set: N:\CRF4\12222004\J517647.raw

```

132 <400> SEQUENCE: 9
133 atcagtgtgt gtggagctgc 20
136 <210> SEQ ID NO: 10
137 <211> LENGTH: 40
138 <212> TYPE: DNA
139 <213> ORGANISM: Artificial Sequence
141 <220> FEATURE:
142 <223> OTHER INFORMATION: Description of Artificial Sequence:PCR forward
143     primer OATPF-4F
145 <400> SEQUENCE: 10
146 actgtaaaac gacggccagt gctgttctag gcaaacaggg 40
149 <210> SEQ ID NO: 11
150 <211> LENGTH: 16
151 <212> TYPE: DNA
152 <213> ORGANISM: Artificial Sequence
154 <220> FEATURE:
155 <223> OTHER INFORMATION: Description of Artificial Sequence:PCR reverse
156     primer OATPF-4R
158 <400> SEQUENCE: 11
159 ccagtagttg gggtgt 16
162 <210> SEQ ID NO: 12
163 <211> LENGTH: 20
164 <212> TYPE: DNA
165 <213> ORGANISM: Artificial Sequence
167 <220> FEATURE:
168 <223> OTHER INFORMATION: Description of Artificial Sequence:Validation
169     primer
171 <400> SEQUENCE: 12
172 cttcttctag acatatatat 20
175 <210> SEQ ID NO: 13
176 <211> LENGTH: 40
177 <212> TYPE: DNA
178 <213> ORGANISM: Artificial Sequence
180 <220> FEATURE:
181 <223> OTHER INFORMATION: Description of Artificial Sequence:PCR forward
182     primer OATPF-5F
184 <400> SEQUENCE: 13
185 actgtaaaac gacggccagt cttcagctct ttctgtgccc 40
188 <210> SEQ ID NO: 14
189 <211> LENGTH: 41
190 <212> TYPE: DNA
191 <213> ORGANISM: Artificial Sequence
193 <220> FEATURE:
194 <223> OTHER INFORMATION: Description of Artificial Sequence:PCR reverse
195     primer OATPF-5R
197 <400> SEQUENCE: 14
198 accaggaaac agctatgacc ttccatcaaa ctaatgaggg g 41
201 <210> SEQ ID NO: 15
202 <211> LENGTH: 54

```

RAW SEQUENCE LISTING

DATE: 12/22/2004

PATENT APPLICATION: US/10/517,647

TIME: 16:24:07

Input Set : A:\06275-422US1.txt

Output Set: N:\CRF4\12222004\J517647.raw

```

203 <212> TYPE: DNA
204 <213> ORGANISM: Homo sapiens
206 <400> SEQUENCE: 15
207 atttttactt taaaaactaa ctttgacaga tcagagtcaa ggaatgtggt tata      54
210 <210> SEQ ID NO: 16
211 <211> LENGTH: 3077
212 <212> TYPE: DNA
213 <213> ORGANISM: Homo sapiens
215 <400> SEQUENCE: 16
216 cattgaaagg aaatggctat ctttgatctc ttccctccaga tcagagtcaa ggaatgtggt 60
217 tataatggac acttcatcca aagaaaatat ccagttgttc tgcaaaactt cagtgcgaacc 120
218 tgttggaagg ccttctttta aaacagaata tccctcctca gaagaaaagc aaccatgctg 180
219 tgggtgaacta aaggtgttct tgtgtgcctt gtcttttgtt tactttgcca aagcattggc 240
220 agaaggctat ctgaagagca ccactactca gatagagaga aggtttgata tcccttcttc 300
221 actggtggga gttattgatg gtagttttga aattgggaat ctcttagtta taacatttgt 360
222 tagctacttt ggagccaaac ttcacaggcc aaaaataatt ggagcagggt gtgtaatcat 420
223 gggagttgga acactgctca ttgcaatgcc tcagttcttc atggagcagt acaaatatga 480
224 gagatattct ccttctcca attccactct cagcatctct ccgtgtctcc tagagtcaag 540
225 cagtcaatta ccagtttcag ttatggaaaa atcaaaatcc aaaataagta acgaatgtga 600
226 agtggacact agctcttcca tgtggattta tgttttcttg ggcaatcttc ttctgtggaat 660
227 aggagaaaact cccattcagc ctttgggcat tgccctacctg gatgattttg ccagtgaaga 720
228 caatgcagct ttctatattg ggtgtgtgca gacggttgca attataggac caatctttgg 780
229 tttctgttta ggctcattat gtgccaaact atatgttgac attggctttg taaacctaga 840
230 tcacataaacc attaccccaa aagatcccca gtgggtagga gcctggtggc ttggctatct 900
231 aatagcagga atcataagtc ttcttgtagc tgtgcctttc tggattttac caaagagttt 960
232 accaagatcc caaagtagag aggatcttaa ttcttctctc gagaaatcca agtttattat 1020
233 agatgatcac acagactacc aaacacccca gggagaaaat gcaaaaataa tggaaatggc 1080
234 aagagatttt cttccatcac tgaagaatct ttttggaaac ccagtatact tcctatattt 1140
235 atgtacaagc actgttcagt tcaattctct gttcggcatg gtgacgtaca aaccaaagta 1200
236 cattgagcag cagtatggac agtcactctc cagggccaac tttgtgatcg ggctcatcaa 1260
237 cattccagca gtggcccttg gaatattctc tgggggggata gttatgaaaa aattcagaat 1320
238 cagtgtgtgt ggagctgcaa aactctactt gggatcatct gtctttgggt acctcctatt 1380
239 tctttccctg tttgactggt gctgtgaaaa ttctgatgtg gcaggactaa ctgtctccta 1440
240 ccaaggaacc aaacctgtct cttatcatga acgagctctc ttttcagatt gcaactcaag 1500
241 atgcaaatgt tcagagacaa aatgggaacc catgtgcggt gaaaatggaa tcacatatgt 1560
242 atcagcttgt cttgctgggt gtcaaacctc caacaggagt ggaaaaaata ttatatTTTA 1620
243 caactgcact tgtgtgggaa ttgcagcttc taaatccgga aattcctcag gcatagtggg 1680
244 aagatgtcag aaagacaatg gatgtcccca aatgtttctg tatttccctg taatttcagt 1740
245 catcacatcc tatactttat ccctaggttg catacctgga tacatattac ttctgagggtg 1800
246 cattaagcca cagcttaagt cttttgcctt gggatcttac acattagcaa taagagttct 1860
247 tgcaggaatc ccagctccag tgtatttttg agttttgatt gatacttcat gcctcaaag 1920
248 gggattttaa agatgtggaa gtagaggatc atgcagatta tatgattcaa atgtcttcag 1980
249 acatatatat ctgggactaa ctgtgatact gggcacagtg tcaattctcc taagcattgc 2040
250 agtacttttc attttaaaga aaaattatgt ttcaaaacac agaagtttta taaccaagag 2100
251 agaaagaaca atggtgtcta caagattcca aaaggaaaat tacactacaa gtgatcatct 2160
252 gctacaaccc aactactggc caggcaagga aactcaactt tagaaacatg atgactggaa 2220
253 gtcattgtct ctaattgggt gacattttgc aaacaaataa attgtaatca aaagagctct 2280
254 aaatttgtaa tttctttctc ctttcaaaaa atgtctactt tgttttggtc ctaggcatta 2340
255 ggtaatataa ctgataatat actgaaacat ataatggaag atgcagatga taaaactaat 2400

```

RAW SEQUENCE LISTING

DATE: 12/22/2004

PATENT APPLICATION: US/10/517,647

TIME: 16:24:07

Input Set : A:\06275-422US1.txt

Output Set: N:\CRF4\12222004\J517647.raw

```

256 tttgaacttt ttaatttata taaattatth tatatcactt acttattttca ctttatttttg 2460
257 ctttggtgctc attgatatat attagctgta ctctagaag aacaattgtc tctattgtca 2520
258 cacatgggta tatttaaagt aatttctgaa ctgtgtaatg tgtctagagt aagcaaatac 2580
259 tgctaacaat taactcatat cttgggttcc ttcaagtatt actcctatag tattttctcc 2640
260 catagctgtc ttcactctgtg ttttttaata atgatcttag gatggagcag aacatggaga 2700
261 ggaagatttc attttaagct cctccttttc tttgaaatac aataatttat atagaaatgt 2760
262 gtagcagcaa attatattgg ggattagaat tttgaattaa tagctctcct actattaatt 2820
263 tacatgtgct ttttggtggt cgctataagt gactatgggt gttaaagtaat aaaattgatg 2880
264 ttaacatgcc caattattgt tcttttatga attcaatgaa tttaaaacta ttgttaaata 2940
265 taatactgcc ccactttaat atatgtaagc aacttcctac ttatacacga cgtgttccta 3000
266 aaacatgttt gaaaggtgaa tttctgaaag tctacaataa atgtaggtgt tacaacagga 3060
267 aaaaaaaaaa aaaaaaa 3077
270 <210> SEQ ID NO: 17
271 <211> LENGTH: 712
272 <212> TYPE: PRT
273 <213> ORGANISM: Homo sapiens
275 <400> SEQUENCE: 17
276 Met Asp Thr Ser Ser Lys Glu Asn Ile Gln Leu Phe Cys Lys Thr Ser
277 1 5 10 15
279 Val Gln Pro Val Gly Arg Pro Ser Phe Lys Thr Glu Tyr Pro Ser Ser
280 20 25 30
282 Glu Glu Lys Gln Pro Cys Cys Gly Glu Leu Lys Val Phe Leu Cys Ala
283 35 40 45
285 Leu Ser Phe Val Tyr Phe Ala Lys Ala Leu Ala Glu Gly Tyr Leu Lys
286 50 55 60
288 Ser Thr Ile Thr Gln Ile Glu Arg Arg Phe Asp Ile Pro Ser Ser Leu
289 65 70 75 80
291 Val Gly Val Ile Asp Gly Ser Phe Glu Ile Gly Asn Leu Leu Val Ile
292 85 90 95
294 Thr Phe Val Ser Tyr Phe Gly Ala Lys Leu His Arg Pro Lys Ile Ile
295 100 105 110
297 Gly Ala Gly Cys Val Ile Met Gly Val Gly Thr Leu Leu Ile Ala Met
298 115 120 125
300 Pro Gln Phe Phe Met Glu Gln Tyr Lys Tyr Glu Arg Tyr Ser Pro Ser
301 130 135 140
303 Ser Asn Ser Thr Leu Ser Ile Ser Pro Cys Leu Leu Glu Ser Ser Ser
304 145 150 155 160
306 Gln Leu Pro Val Ser Val Met Glu Lys Ser Lys Ser Lys Ile Ser Asn
307 165 170 175
309 Glu Cys Glu Val Asp Thr Ser Ser Ser Met Trp Ile Tyr Val Phe Leu
310 180 185 190
312 Gly Asn Leu Leu Arg Gly Ile Gly Glu Thr Pro Ile Gln Pro Leu Gly
313 195 200 205
315 Ile Ala Tyr Leu Asp Asp Phe Ala Ser Glu Asp Asn Ala Ala Phe Tyr
316 210 215 220
318 Ile Gly Cys Val Gln Thr Val Ala Ile Ile Gly Pro Ile Phe Gly Phe
319 225 230 235 240
321 Leu Leu Gly Ser Leu Cys Ala Lys Leu Tyr Val Asp Ile Gly Phe Val
322 245 250 255

```

RAW SEQUENCE LISTING ERROR SUMMARY
PATENT APPLICATION: US/10/517,647

DATE: 12/22/2004
TIME: 16:24:08

Input Set : A:\06275-422US1.txt

Output Set: N:\CRF4\12222004\J517647.raw

error explanation

Use of <220> Feature (NEW RULES):

Sequence(s) are missing the <220> Feature and associated headings.

Use of <220> to <223> is MANDATORY if <213> ORGANISM is "Artificial Sequence" or "Unknown". Please explain source of genetic material in <220> to <223> section (See "Federal Register," 6/01/98, Vol. 63, No. 104, pp.29631-32) (Sec.1.823 of new Rules)

Seq#:1

VERIFICATION SUMMARY

PATENT APPLICATION: US/10/517,647

DATE: 12/22/2004

TIME: 16:24:08

Input Set : A:\06275-422US1.txt

Output Set: N:\CRF4\12222004\J517647.raw

L:10 M:270 C: Current Application Number differs, Replaced Current Application No
L:10 M:271 C: Current Filing Date differs, Replaced Current Filing Date
L:28 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ#:1, <213>
ORGANISM:Artificial Sequence
L:28 M:258 W: Mandatory Feature missing, <223> Tag not found for SEQ#:1, <213>
ORGANISM:Artificial Sequence
L:28 M:258 W: Mandatory Feature missing, <223> Blank for SEQ#:1,Line#:28